

**SPRAYED INSULATION, INC.**

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end painted SprayKote treated  
de walls—Charleston Gardens,  
Altman & Sons, New York, N. Y.

***SprayKote***

Trademark Reg. U. S. Pat. Off.

***acoustical fibre insulation***

approved by Board of Standards and Appeals,  
New York City, for acoustical thermal insulation

**for Sound Correction**



## SprayKote characteristics

SprayKote is an all-purpose acoustical and thermal insulation for application to surfaces of wood, metal, glass, rock lath, concrete, plaster and materials previously coated with oil paint.

SprayKote consists of six different asbestos and mineral wool fibres. The binders, while water soluble, are not affected by moisture condensation, steam, or roof leaks—once they are set.

*Sprayed Insulation, Inc. has its own fibre processing plant in which the different fibres are refined and blended. This concentration of effort assures uniform quality, imperative in this type of work.*

Because SprayKote is monolithic, it eliminates cracks, seams and holes. It possesses a high light reflection factor. It can be readily painted and repainted with casein paint in any color. It is easily cleaned with a duster, is verminproof, water-repellent, rust-resistant, wind-tight and fireproof. It is light in weight and withstands vibration.

SprayKote is widely used for acoustical correction and insulation in offices, libraries, theatres, auditoriums, study halls, churches, and similar interiors. It also provides excellent sound deadening for shops, restaurants, and between floors and rooms.

**application:** SprayKote is applied by means of a spray gun—in thickness of  $\frac{3}{8}$  inch or more depending upon results desired. After the proper thickness is applied, it is then tamped for texture and spray painted to color specifications. SprayKote is applied by licensed applicators throughout the United States, employing skilled workmen experienced in acoustical treatments.

**dust control:** The tremendous advantage of SprayKote over similar products is that the patented process practically eliminates the troublesome dust heretofore present during application. This is accomplished by giving the surface a positive (or cationic) electrical charge and the material being applied a negative (or anionic) charge. The resultant action is about the same as a magnet drawing iron filings. Not only does the SprayKote process practically eliminate the dust, but it also provides an increased speed of application affording a more uniform and finer texture; a stronger internal strength. Actually, we have adapted the electrochemical method of dust precipitation to our process of sprayed insulation.

## for acoustical correction

SprayKote has an extremely high coefficient of sound absorption as shown in the table below. One application of SprayKote, usually  $\frac{3}{8}$  inch thick and seldom more than  $\frac{3}{4}$  inch thick, effectively corrects distortion of speech and music. In addition to its high coefficient of noise reduction, SprayKote is completely incombustible; this advantage adds to its value for application in churches, auditoriums, study halls, offices, theatres and similar interiors.

SprayKote has wide application in skating rinks, acoustically difficult because of their large shape. Speech and music broadcast by the public address system are distorted by the rumble of the skates. The rumble is in the troublesome low frequencies, and the materials generally used in construction have little absorption at those frequencies. SprayKote, having a high sound absorption, will entirely correct this difficulty as proved in the report on the Fire Department Repair Shop on page 4. Such areas, SprayKote treated, will then be pleasant and restful in comparison.

### sound absorption characteristic of SprayKote

thickness	coefficient					noise reduction coefficient
	128	256	512	1024	2048	

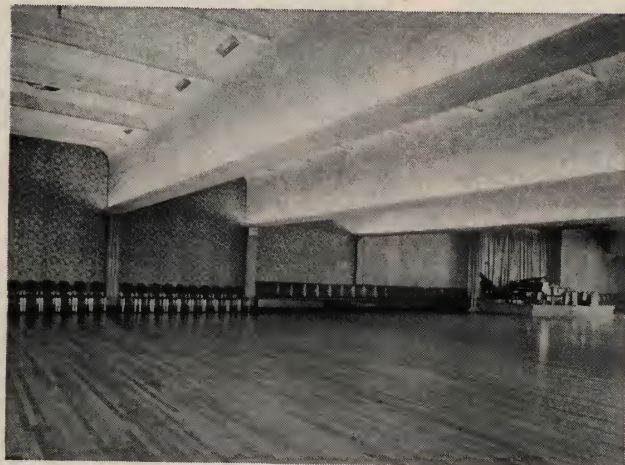
#### applied to Z ribbed metal lath

½ in.	.57	.85	.85	.90	.94	.90
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#### applied to any solid backing

¾ in.	.37	.19	.38	.71	.76	.51
½ in.	.37	.19	.46	.77	.87	.60
¾ in.	.30	.33	.72	.85	.86	.70
1 in.	.38	.54	.85	.91	.93	.85

Riverbank Laboratories and Bureau of Standard Tests.





## specifications

Suggested wording for specifications of "SprayKote" for acoustical purposes:

Material shall be "SprayKote" as manufactured and applied by Sprayed Insulation, Inc., Newark, New Jersey.

"SprayKote" shall be applied by gun method direct to surface provided, to a thickness of . . . . ., having a sound absorption coefficient of . . . . .% at 512 cycles and a noise reduction coefficient of . . . . .%.

The fibre shall be "SprayKote" 1102 and the binder a synthetic resin which, after setting, shall not be affected by water, steam, moisture or condensation.

The above specified material shall be applied and finished as follows:

An initial coat of anionic binder shall be applied by spray gun to surface to be treated and before this has set, "SprayKote" cationic fibre and binder in sufficient quantity to finish to specified thickness shall be blown on. This shall then be tamped to specified finish by hand and shall conform to contour of area as designed.

This surface shall then be sprayed with a final binder coat in which is included white or any preselected Casein color. Surface to be completely monolithic.



## for sound deadening

In shops, testing laboratories, engine rooms and similar interiors, SprayKote is widely used for sound deadening; in such applications, the SprayKote is applied to the walls and ceilings by a spray gun.

In wood stud construction, SprayKote is used between rooms and floors; it practically eliminates the troublesome noises otherwise experienced. It is likewise used for deadening sound in apartment houses—particularly in walls surrounding bathrooms and between floors. SprayKote even reduces the channelling of disturbing noises through partitions of glass or metal. Because of the numerous ways by which noises are channelled into interiors, the manner of applying the SprayKote varies accordingly.

## recommendations

Upon receipt of full details of the acoustical problem (including location, size of area and particular conditions), SprayKote engineers will be glad to furnish complete details of recommended application, thickness of SprayKote and estimated cost.

When Federal Specification No. SS-A-111 is revised, the National Bureau of Standards, U. S. Department of Commerce, will list SprayKote.





# Spraykote

## sound correction



### typical application

Seton Hall College,  
Urban Division  
Reuben's Restaurant  
Gilmore Steak House  
W. & J. Sloane  
Standard Oil Co. of N. J.  
Reynolds Metals Co.  
Marine-Midland Trust Co.  
Charleston Gardens,  
B. Altman & Co.  
Naval Reserve Armory  
Public Service Corp.  
Fire Department Repair Shop  
N. Y. State Housing  
Authority  
N. Y. City Housing  
Authority

Newark, N. J.  
New York, N. Y.  
New York, N. Y.  
New York, N. Y.  
Bayway, N. J.  
Harrison, N. J.  
New York, N. Y.  
  
New York, N. Y.  
Elizabeth, N. J.  
Newark, N. J.  
Long Island City, N. Y.  
  
New York, N. Y.  
  
New York, N. Y.

### advisory service

Sprayed Insulation, Inc., has inaugurated its SPRAYKOTE service to assist architects and contractors in handling different problems of thermal insulation, acoustical correction, sound deadening and condensation control. This service is rendered by a

International Airport  
The Brass Rail  
Station W. C. T. C., Chanticleer  
Broadcasting Co.  
Television AM & FM, Radio  
Station WATV  
Republic Aviation Corp.  
Pathe Industries  
Western Electric Co.  
Paper Mill Playhouse  
Textron, Inc.  
Herald News Offices  
Hotel Commodore  
Yankee Stadium Club Room  
Tournament Lanes, Inc.  
Bowling Alleys

New York, N. Y.  
New York, N. Y.  
  
New Brunswick, N. J.  
  
Newark, N. J.  
Farmingdale, N. Y.  
New York, N. Y.  
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Passaic, N. J.  
New York, N. Y.  
New York, N. Y.  
  
Brooklyn, N. Y.

## SPRAYED INSULATION, INC.

56-58 Crittenden Street, Newark, N. J.

Telephone: Humbolt 5-2372

New York City, Telephone: Enterprise 6407

VESPER A. SCHLENNER  
CONSULTING ENGINEER  
  
Licensed Professional Engineer  
Lecturer, Columbia University

P. O. Box 682  
Camden, N. J.  
October 3, 1947

Sprayed Insulation, Inc.  
78 Hawthorne Place  
Montclair, New Jersey

Attention: Mr. James L. Kempthorne, President

Gentlemen:  
It is a pleasure to comply with your request for a report on the two acoustical tests which I conducted before and after your application of your "Spraykote" to the concrete barrel ceiling of the new New York City Fire Department Repair Shop at Hunters Point Avenue, Long Island City, N. Y.

The reverberation was measured by means of a complete electro-acoustic testing equipment, including: Sound Level Meter, High Speed Level Recorder, Warble Frequency Source of Test Tones, Power Amplifier, and Loud Speakers.

The residual or initial acoustical absorption was the same at each test within the limits of observation, so that the indicated increase in absorption may be attributed to the treatment of the concrete ceiling.

Frequency in cycles per sec.	250	500	1000	2000	3000
Reverberation Periods in seconds	Before: 19.1 After: 6.2	17.4 4.0	12.3 3.3	9.9 2.9	7.9 3.2

According to your statement, this treatment is 3/4" thick and was specified primarily for heat insulation of the concrete roof. Therefore, the two end walls were not covered. The omission of adequate treatment for acoustical absorption on the two end walls is responsible for the presence of discernible echoes even after being greatly reduced by your ceiling treatment.

The size of the room is large, as indicated by its width of 121 feet, length of 491 feet, and height of 34 feet at highest point of the barrel ceiling. The reverberation periods before treatment were the longest I have ever measured. The treatment as it is will relieve the intolerable reverberant condition which would have resulted without it, although a heavy acoustical treatment of the end walls is still very much needed.

\* Note: Reverberation period is the time required for the specified sound to decay away to one millionth of its initial intensity.

Respectfully submitted,  
Vesper A. Schlenker

VAS:cc

*sold and installed by...*



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